



Project: Alaska Copper Works

Inspection Date: 12/23/19

Project No.: 19ACW1

Technician: David DuBois

System Performance:

Was system running during the inspection? ☐ Yes ☒ No

| | | | | | |
|--------------------------------|----------|------------|----------|------------|---|
| Flow Rates (gpm) | Influent | <u>85</u> | Effluent | <u>n/a</u> | The flows should be ~155 gpm |
| Bag Filter #1 Pressures (psi) | Influent | <u>15</u> | Effluent | <u>10</u> | The bag filters should be replaced if differential pressure > 8 psi |
| Bag Filter #2 Pressures (psi) | Influent | <u>16</u> | Effluent | <u>11</u> | |
| Carbon Filter Pressures (Lead) | Influent | <u>n/a</u> | Effluent | <u>n/a</u> | The carbon filters should be backflushed if differential pressure > 8 psi |
| Carbon Filter Pressures (Lag) | Influent | <u>n/a</u> | Effluent | <u>n/a</u> | |

Were the bag filters replaced? ☒ Yes ☐ No

Was the carbon backflushed? ☐ Yes ☒ No

Maintenance and Inspection Checklist:

| Task | Completed (Y/N) | Issues/Notes/Comments |
|----------------------------------|---|--|
| Walchem Controller Inspected | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | No issues |
| Flow Meters Inspected | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Cleaned meters |
| Level Sensor Cleaning/Inspection | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Inspect System Plumbing | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Pumps Inspected | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Good |
| General Housekeeping | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Chemistry Level | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <2 gallons 10% Caustic 50 gallons 25% Caustic |
| Safety Materials Inspected | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| pH Probe Inspection/Calibration | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Calibrated - ok upon departure |



Water Sampling:

Were water samples taken? ☐ Yes ☒ No

| | | | | | |
|------------------------|----|-------------|-----------|-------------|-----|
| Raw water: | pH | <u>6.00</u> | Turbidity | <u>3.63</u> | NTU |
| Bag Filter Influent | pH | <u>9.55</u> | Turbidity | <u>6.51</u> | NTU |
| Bag Filter Effluent | pH | <u>9.45</u> | Turbidity | <u>2.77</u> | NTU |
| Carbon Filter Influent | pH | <u>n/a</u> | Turbidity | <u>n/a</u> | NTU |
| Carbon Filter Effluent | pH | <u>n/a</u> | Turbidity | <u>n/a</u> | NTU |

Monthly Tasks:

Were samples submitted to Analytical? ☐ Yes ☒ No

Analytical Lab: _____

Was Walchem data downloaded? ☐ Yes ☒ No

Were the tank sludge levels checked? ☐ Yes ☒ No

Sludge Depth (inches):

Decant Tank: _____

Treatment tank: _____

Backflush tank: _____

Main lift station: _____

North lift station: _____

South lift station: _____

Additional Comments, Recommendations and System Upsets:

8 unused filters remaining onsite.

Daily checks after the rain events caused increase of filter usage.

In-line pH probe's deviation from handheld causing increased calibrations of the probe.

David DuBois

Technician

Project Lead Technician

Title

12/23/19

Date

Submit